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GUS-0274 Cy_/of 4 26 May 1959

Est 3 - 4 hrs ?

MEMORANDUM FOR THE RECORD:

SUBJECT: Comparison Study of Proposed Follow-on Vehicle

- 1. This report represents an initial comparison study of the two proposed follow-on vehicles; Convair's Super Hustler and Lockheed's A-11.
 - 2. The evaluation is based on the following references:
 - (a) Memo for Record, Subject: "Follow-on Operational Considerations," dated 25 May 1959.
 - (b) Memo for Record, Subject: "Follow-on Evaluation Criteria," dated 25 May 1959.
 - 3. Operational Comparison
 - (a) Performance

8 Turn Around Time

			Super Hustler	<u>A-11</u>
	1	Speed	Mach 4.0	Mach 3.2
	2	Range		
		(a) W/O Refueling	4150 NM ?	25X1D
		(b) With Refueling	B-58 6,000 NM - pre-strike Super 4,000, ‡ ? ? post-strike	25X1D 3X -
25X1D	3	Altitude PROFILE	90,000 7100,000	87,000 ft &
	4	Employment Radar Immunity	Requires staging or deployment base Low RADAR Perlectivity Considered	Requires no overseas bases. Can T.O. and land from one Z.I. base (Security - Log-istic - Political and Cover factors.) HIGH RADAR RETURNS. Not considered
		hadar immuricy		
25X1D	6		Considered HIGHER	Considered LoweR
25X1D				

Estimated 8 - 12 hrs ?

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		Super Hustler	<u>A-11</u>		
9	System Availability	Contractor estimate 24 Mo.	18 - 24 Mo.		
10	Navigation System	Inertial Guidance System	Inertial Guidance Syste		
11	Fatigue Factor	Capsule Concept - comfortable cockpit environment	Pressure suit - and high temperatures		
12	Escape System	Capsule - feasible and desirable	Minimum acceptable by USAF standards		
13	Payload Capability	500 lbs - five alternate locations ADDED WT + CUBAGE MORE DIFFICULT THAN	500 lbs. U-2 size Bay 5 ft diam. 72 in. long 48 in. hatches		
14	Logistics				
	It is difficult to compare the two vehicles since very little is known about the special ground handling equipment, fuels, retrieve procedures, etc. The following is a rough estimate of requirements.				
	(a) <u>Maintenance</u>	Equivalent to operating 4 U-2s per single mission	Equivalent to operating 2 U-2s for single mission		
	(b) Ground Handling	Unknown	Unknown		
	(c) Time Estimates				
	(1) Sortie Rate	one/day	one/day		
	(2) Turn Around	8 - 12 hrs depending on retrieve	6 - 8 hrs.		
	(3) <u>In commission</u>	rate 50% of A-11	Unknown		
	(4) Logistics	Double Qty	Single Qty		
	(<u>1</u>)	Ground Equip			
	(<u>2</u>)	Personnel Equip			
	(<u>3</u>)	Hangar space			
	(<u>4</u>)	Cargo space			
	(5)	Staging operations			

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(5) Engines

3 types

1 type

3 contractors

1 contractor

7 total

2 total

25X1A9a

Colonal

Colonel USAF Chief, Operations Branch, DPD

DPD/DD-P:AES/am